



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

OCT 17 2001

DOT-E 10695
(SEVENTH REVISION)

EXPIRATION DATE: January 31, 2002

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: 3M Company
St. Paul, MN
2. PURPOSE AND LIMITATION:
 - a. This exemption authorizes the transportation in commerce of ethylene oxide packaged in aluminum cartridges within a UN4G fiberboard box. For domestic transportation only, this exemption also authorizes packages to be transported with a flammable gas (division 2.1) label instead of both poison gas (division 2.3) and flammable gas labels. This exemption provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein.
 - b. The safety analyses performed in development of this exemption only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 172.101, 172.505(a), 173.323, 174.81, 176.84, 177.848 and 172.504 in that the placarding requirements are modified in paragraph 8.d. of this exemption.

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5. BASIS: This exemption is based on 3M Company's application of January 26, 2001, submitted in accordance with § 107.105 and the public proceeding thereon.
6. HAZARDOUS MATERIALS (49 CFR 172.101):

Proper Shipping Name/ Hazardous materials description	Hazard Class/ Division	Identi- fication Number	Packing Group
Ethylene oxide	2.3	UN1040	n/a

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is an aluminum cartridge that contains no more than 200g (7.05 ounces) of ethylene oxide as described in the application on file with the Office of Hazardous Materials Exemptions and Approvals (OHMEA).

b. TESTING:

(1) As filled, each aluminum cartridge has a burst pressure no less than 1.86 Mpa (270 psig) and 10 times its charged pressure at 21.1°C. (70°F.); and

(2) After filling, is leak tested in a hot water bath at a temperature and for a period sufficient to achieve the vapor pressure of ethylene oxide at 55°C (130°F).

c. OPERATIONAL CONTROLS - Cartridges containing ethylene oxide are packed in groups of twelve (12) in UN4G fiberboard boxes, marked as meeting Packaging Group I performance requirements, that are fitted with styrofoam units at each end to rigidly hold and separate the cartridges from each other and box sidewalls.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

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- b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.
- c. For domestic transportation only, packages need not be labeled Division 2.3 (poison gas) but must be marked "INHALATION HAZARD" in association with the Division 2.1 (flammable gas) label.
- d. For domestic transportation only, transportation of authorized packages may conform to segregation and placarding requirements for Division 2.1 (flammable gas) materials. Otherwise, transportation of authorized packages must conform to segregation and placarding requirements for Division 2.3 (poison gas) and Division 2.1 (flammable gas) materials. (see §§ 174.81, 176.83, 176.84, 177.848 and 172.504, Table 2).
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight and cargo vessel.
10. MODAL REQUIREMENTS: A current copy of this exemption must be carried aboard each cargo vessel and motor vehicle used to transport packages covered by this exemption.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. Section 5101 et seq:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
 - o Registration required by 49 CFR 107.601 et seq., when applicable.

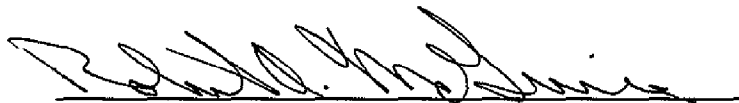
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Each "Hazmat employee", as defined in 49 CFR 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by 49 CFR 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (49 CFR 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:



Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

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(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, Washington, DC 20590-0001, Attention: Docket Section, 202-366-5046.

PO: SStaniszewski